Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P941892

Luminaire Tested: **GALN-SB5C-927-U-SL4**

Issue Date: 1/21/2025

Report Generated By 670246001

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P941892
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB5C-927-U-SL4
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(5) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	22826 lumens
Efficiency:	N/A
Efficacy:	91.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Medium
BUG Rating:	B3 - U0 - G4
Input Watts (W):	249.5
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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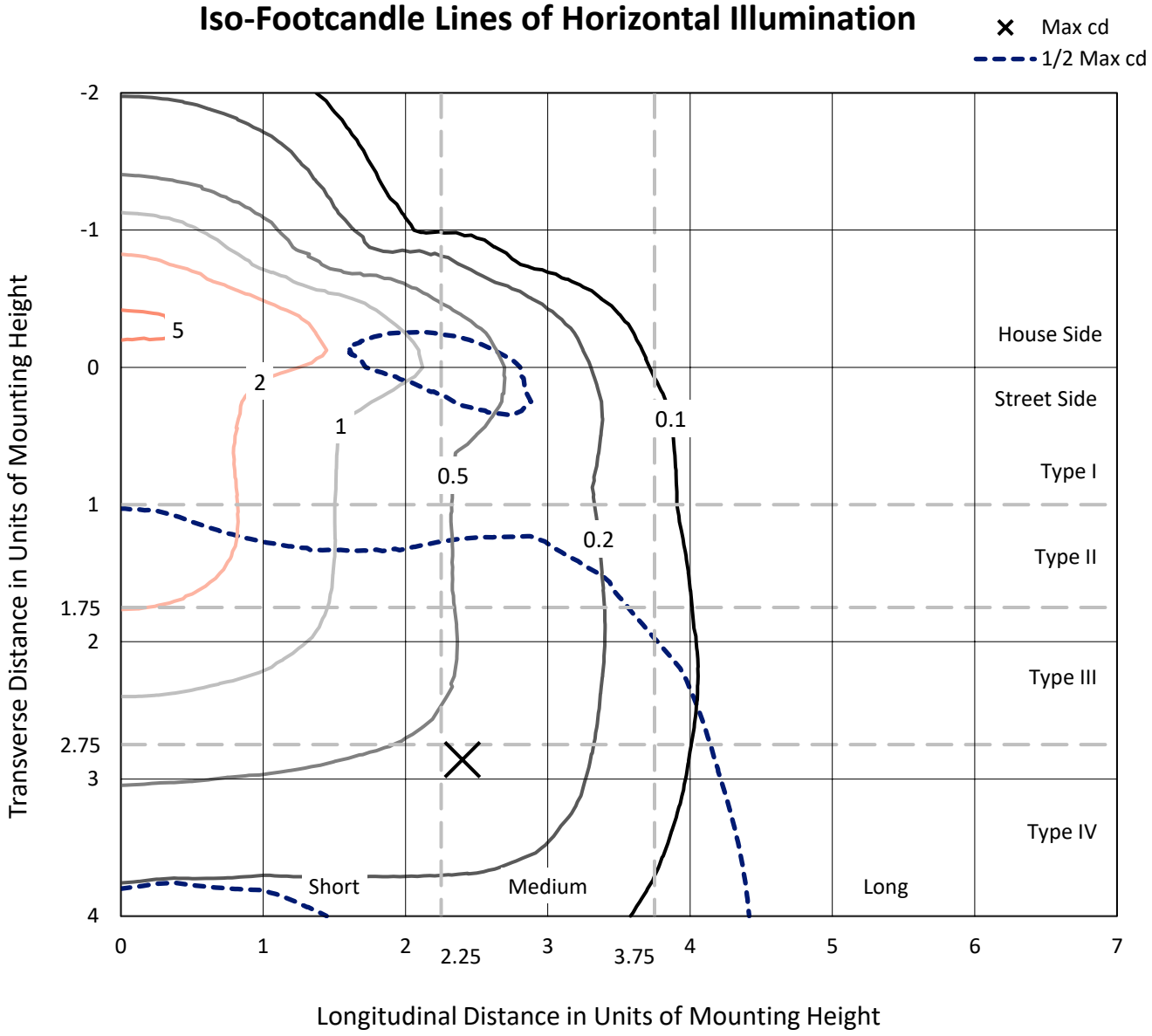
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type IV - Medium - N/A

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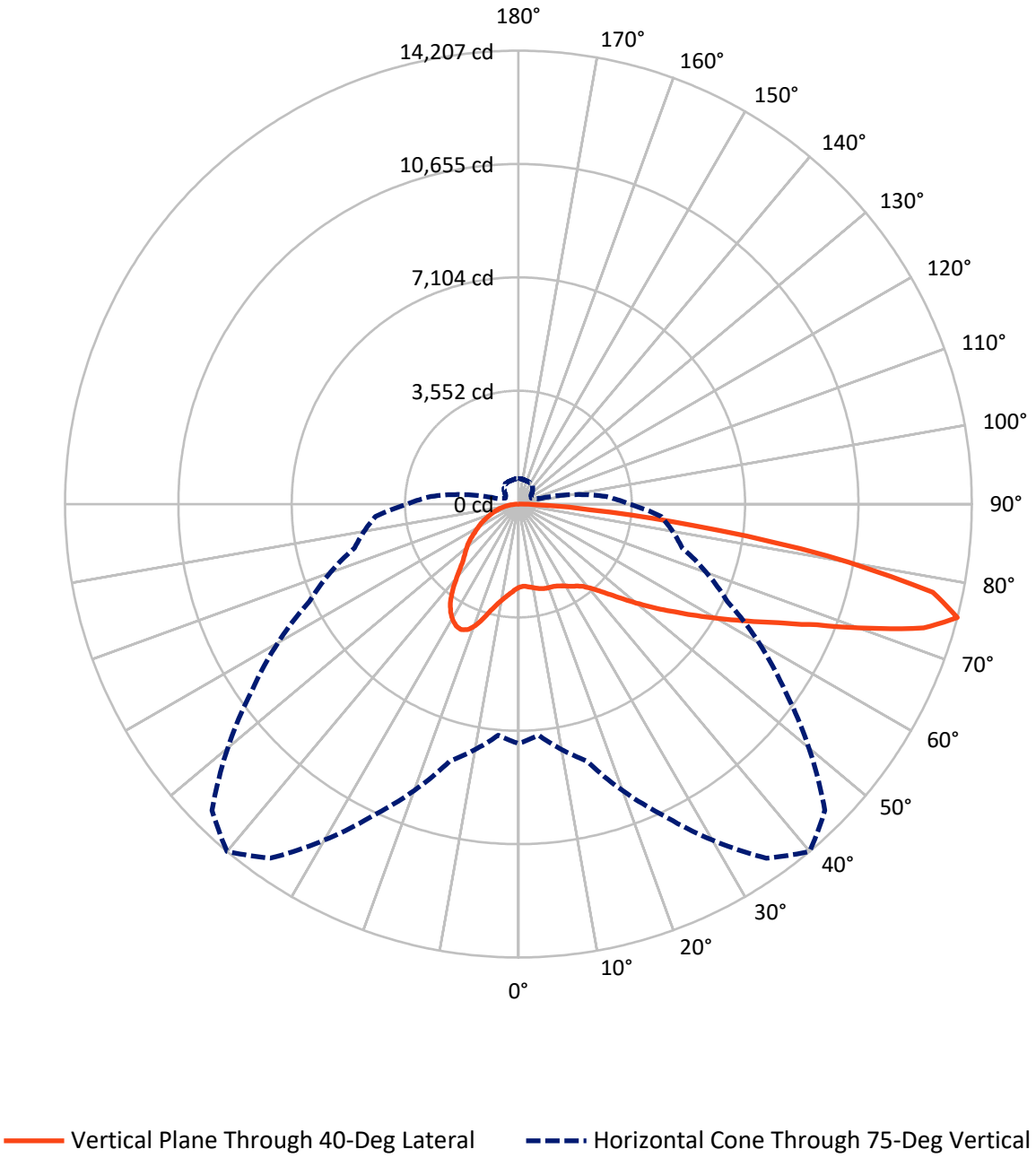
Luminous Intensity Polar Plot



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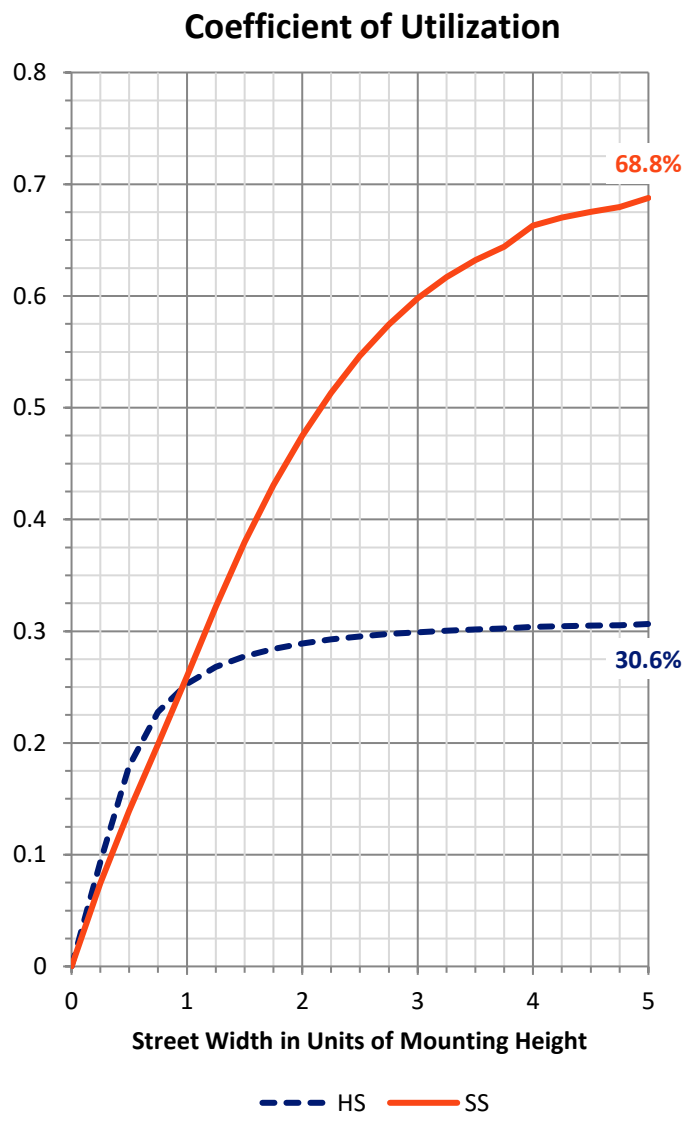
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7072.2	0.0	7072.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	15753.8	0.0	15753.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	22826.0	0.0	22826.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	1.1
10°-20°	874.8	3.8
20°-30°	1597.3	7.0
30°-40°	2265.4	9.9
40°-50°	3058.9	13.4
50°-60°	4115.1	18.0
60°-70°	5223.0	22.9
70°-80°	4740.2	20.8
80°-90°	691.0	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	22826.0	100.0
0°-180°	22826.0	100.0



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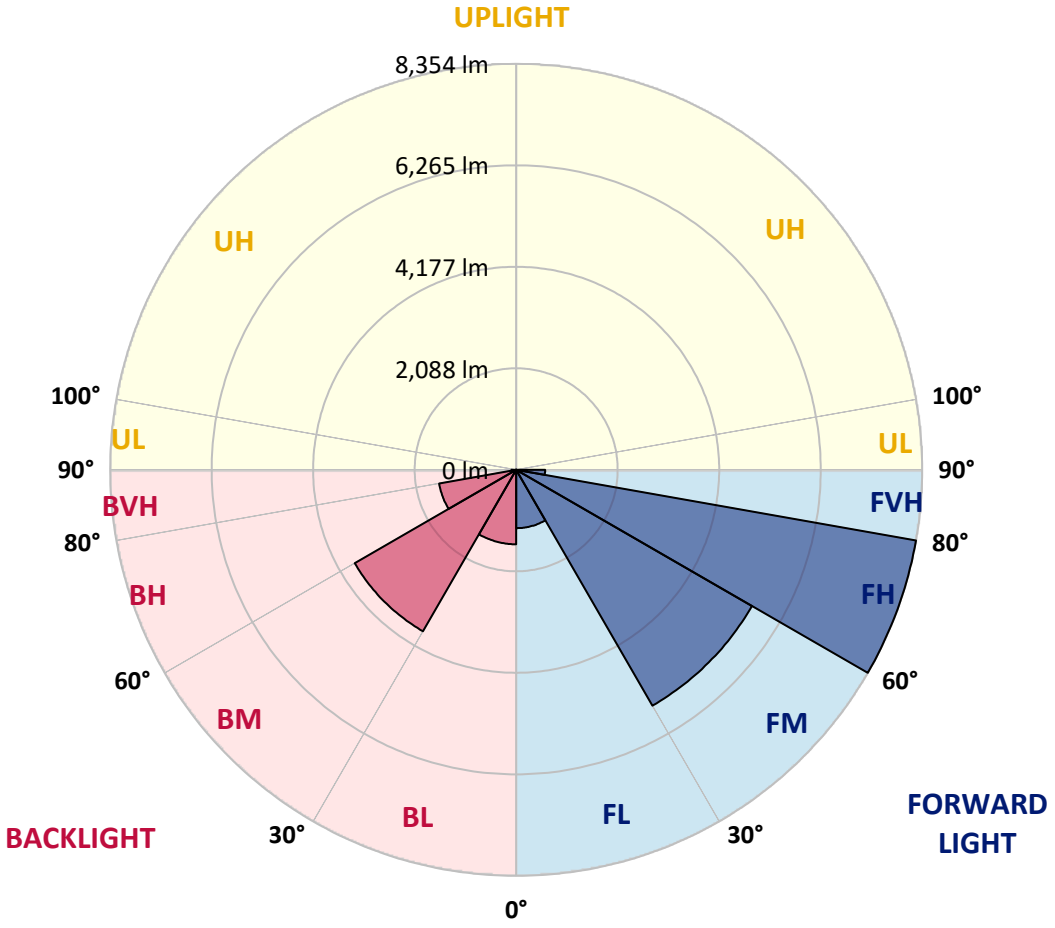
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1200.7	5.3			
FM	(30°-60°)	5603.3	24.5			
FH	(60°-80°)	8354.0	36.6			G4/12000
FVH	(80°-90°)	595.8	2.6			G4/750
BL	(0°-30°)	1531.9	6.7	B3/2500		
BM	(30°-60°)	3836.1	16.8	B3/5000		
BH	(60°-80°)	1609.1	7.0	B3/2500		G3/2500
BVH	(80°-90°)	95.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2610.2	2610.2	2610.2	2610.2	2610.2	*2610.2*	2610.2	2610.2	2610.2	2610.2
2.5°	2570.2	2584.8	2581.1	2576.3	2576.3	*2577.5*	2576.3	2584.8	2593.2	2601.7
5°	2596.9	2611.4	2604.1	2598.1	2593.2	*2592.0*	2588.4	2587.2	2592.0	2602.9
7.5°	2648.9	2663.5	2652.6	2641.7	2632.0	*2627.1*	2622.3	2615.0	2611.4	2617.4
10°	2707.0	2721.6	2708.2	2688.9	2673.1	*2667.1*	2662.2	2655.0	2650.1	2653.8
12.5°	2765.1	2779.7	2761.5	2734.9	2714.3	*2710.7*	2704.6	2702.2	2701.0	2699.8
15°	2819.6	2831.7	2808.7	2777.3	2755.5	*2749.4*	2743.4	2747.0	2753.0	2760.3
17.5°	2862.0	2874.1	2840.2	2799.0	2778.5	*2776.0*	2772.4	2784.5	2801.5	2819.6
20°	2900.7	2912.8	2869.3	2813.6	2789.4	*2789.4*	2790.6	2816.0	2840.2	2866.8
22.5°	2955.2	2964.9	2911.6	2835.4	2800.3	*2802.7*	2812.4	2837.8	2868.1	2904.4
25°	3036.3	3043.6	2978.2	2876.5	2836.6	*2843.8*	2852.3	2864.4	2893.5	2935.9
27.5°	3167.1	3173.1	3087.2	2949.2	2888.6	*2900.7*	2912.8	2904.4	2917.7	2954.0
30°	3351.1	3354.7	3245.8	3063.0	2977.0	*2983.1*	2985.5	2950.4	2925.0	2954.0
32.5°	3569.0	3567.8	3438.3	3201.0	3077.5	*3071.4*	3050.9	2981.9	2922.5	2948.0
35°	3906.8	3893.5	3726.4	3394.7	3191.3	*3153.8*	3105.3	3017.0	2934.6	2941.9
37.5°	4466.1	4425.0	4193.7	3711.9	3360.8	*3265.2*	3193.7	3073.9	2961.3	2939.5
40°	5096.9	5044.8	4790.6	4146.5	3615.0	*3461.3*	3346.3	3155.0	3004.9	2950.4
42.5°	5845.1	5771.2	5497.6	4658.6	3937.1	*3714.3*	3541.2	3257.9	3069.0	2985.5
45°	6764.0	6665.9	6278.5	5236.1	4342.6	*4046.0*	3814.8	3414.1	3167.1	3053.3
47.5°	7692.5	7716.7	7165.9	5897.1	4829.3	*4455.2*	4157.4	3648.9	3309.9	3162.2
50°	8679.2	8696.2	8048.5	6629.6	5381.4	*4917.7*	4542.4	3911.6	3508.5	3317.2
52.5°	9449.2	9451.6	8849.9	7395.9	5956.4	*5426.2*	4957.7	4211.9	3738.5	3523.0
55°	9931.0	9925.0	9411.7	8121.1	6617.5	*5960.1*	5417.7	4553.3	4019.4	3765.2
57.5°	10280.9	10262.8	9799.1	8744.6	7322.1	*6590.8*	5938.3	4940.7	4351.1	4053.3
60°	10414.1	10403.2	10061.8	9283.3	8063.0	*7288.2*	6538.8	5374.1	4727.6	4393.5
62.5°	10464.9	10485.5	10319.7	9805.1	8856.0	*8060.6*	7198.6	5892.3	5151.4	4778.5
65°	10644.1	10681.7	10647.8	10487.9	9751.9	*8964.9*	8073.9	6508.5	5613.8	5191.3
67.5°	10998.8	11036.4	11050.9	11305.1	10846.3	*10092.1*	9165.9	7276.1	6155.0	5619.9
70°	10990.4	10979.5	11236.1	11955.3	12216.8	*11652.6*	10638.1	8220.4	6800.3	5975.8
72.5°	10003.7	9916.5	10523.1	11948.0	13357.2	*13282.2*	12435.9	9438.3	7357.2	6019.4
75°	*7504.9*	*7272.4*	*8343.9*	*10767.6*	*13547.3*	*14207.1*	*13578.8*	*10193.8*	*7225.2*	*5318.4*
77.5°	3209.5	2975.8	4238.5	7971.0	12124.8	*13280.9*	12530.3	8893.5	5767.6	3517.0
80°	840.2	839.0	1280.9	3613.8	8245.8	*9807.6*	8604.2	5743.4	3295.4	1256.7
82.5°	347.5	339.0	470.9	1405.6	4029.1	*5503.7*	4491.5	2561.8	1190.1	340.2
85°	129.5	128.3	228.8	485.5	1421.3	*2270.0*	1642.9	655.0	296.6	165.9
87.5°	36.3	35.1	49.6	168.3	346.2	*525.4*	280.9	107.7	83.5	65.4
90°	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2610.2	0°	2610.2	2610.2	2610.2	2610.2	2610.2	2610.2	2610.2	2610.2	2610.2	2610.2
2615.0	2.5°	2618.7	2624.7	2635.6	2644.1	2655.0	2667.1	2684.0	2694.9	2705.8	2713.1
2621.1	5°	2629.6	2642.9	2670.7	2698.6	2731.2	2761.5	2796.6	2822.0	2842.6	2848.7
2642.9	7.5°	2653.8	2675.6	2722.8	2770.0	2822.0	2871.7	2922.5	2966.1	3001.2	3014.5
2681.6	10°	2696.1	2725.2	2791.8	2858.4	2927.4	3003.6	3069.0	3132.0	3181.6	3202.2
2727.6	12.5°	2749.4	2785.7	2872.9	2964.9	3060.5	3165.9	3250.6	3328.1	3389.8	3417.7
2791.8	15°	2818.4	2865.6	2977.0	3100.5	3240.9	3387.4	3495.2	3581.1	3650.1	3684.0
2858.4	17.5°	2893.5	2956.4	3096.9	3283.3	3484.3	3676.8	3802.7	3865.6	3937.1	3969.8
2920.1	20°	2966.1	3043.6	3244.6	3515.8	3783.3	3987.9	4089.6	4106.6	4111.4	4115.0
2978.2	22.5°	3041.2	3145.3	3429.8	3808.7	4095.7	4237.3	4251.8	4179.2	4077.5	4030.3
3035.1	25°	3123.5	3261.5	3671.9	4132.0	4364.4	4381.4	4270.0	4093.2	3900.7	3812.4
3081.1	27.5°	3203.4	3395.9	3962.5	4440.7	4558.1	4409.2	4169.5	3918.9	3686.5	3593.2
3113.8	30°	3283.3	3549.7	4283.3	4710.7	4646.5	4340.2	4010.9	3731.3	3497.6	3399.5
3142.9	32.5°	3364.4	3728.8	4652.6	4905.6	4630.8	4193.7	3813.6	3520.6	3314.8	3211.9
3168.3	35°	3456.4	3949.2	5002.4	5012.1	4525.4	3978.2	3553.3	3268.8	3089.6	3007.3
3198.6	37.5°	3576.3	4228.8	5311.2	5038.8	4341.4	3662.2	3230.0	2971.0	2823.3	2785.7
3243.4	40°	3725.2	4565.4	5547.2	4996.4	4069.0	3278.5	2876.5	2669.5	2586.0	2594.4
3303.9	42.5°	3918.9	4941.9	5713.1	4887.4	3690.1	2882.6	2566.6	2474.6	2514.5	2548.4
3394.7	45°	4170.7	5333.0	5816.0	4702.2	3261.5	2547.2	2383.8	2405.6	2435.8	2439.5
3541.2	47.5°	4492.8	5728.8	5883.8	4422.5	2824.5	2311.2	2267.6	2272.4	2266.4	2240.9
3760.3	50°	4894.7	6113.8	5944.3	4052.1	2452.8	2163.4	2105.3	2088.4	2004.9	1922.5
4052.1	52.5°	5352.3	6467.3	5969.8	3592.0	2163.4	2040.0	1945.5	1839.0	1682.8	1657.4
4418.9	55°	5860.8	6794.2	5904.4	3026.7	1920.1	1881.4	1738.5	1610.2	1593.2	1571.4
4902.0	57.5°	6468.6	7146.5	5771.2	2395.9	1670.7	1696.1	1556.9	1571.4	1541.2	1507.3
5523.0	60°	7133.2	7510.9	5537.6	1820.8	1412.8	1464.9	1509.7	1508.5	1500.0	1472.2
6178.0	62.5°	7731.3	7750.6	5077.5	1394.7	1186.4	1285.7	1408.0	1406.8	1399.5	1383.8
6862.0	65°	8087.2	7714.3	4310.0	1098.1	1000.0	1138.0	1270.0	1279.7	1280.9	1279.7
7376.6	67.5°	8024.3	7289.4	3256.7	874.1	846.3	987.9	1133.2	1146.5	1156.2	1158.6
7441.9	70°	7312.4	6356.0	2123.5	697.3	709.4	855.9	1003.6	1017.0	1025.4	1035.1
6457.7	72.5°	5699.8	4673.1	1215.5	564.2	589.6	742.1	875.3	891.0	895.9	914.0
4494.0	75°	*3473.4*	*2748.2*	*656.2*	*444.3*	*484.3*	*634.4*	*748.2*	*766.3*	*774.8*	*796.6*
2207.0	77.5°	1651.3	1190.1	374.1	346.2	389.8	518.2	632.0	652.5	629.5	641.6
609.0	80°	558.1	441.9	236.1	263.9	297.8	404.4	506.1	526.6	478.2	475.8
202.2	82.5°	194.9	179.2	150.1	175.5	192.5	289.3	382.6	409.2	355.9	354.7
90.8	85°	76.3	72.6	83.5	95.6	115.0	178.0	251.8	265.1	219.1	176.8
26.6	87.5°	15.7	16.9	20.6	21.8	35.1	61.7	90.8	111.4	88.4	75.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
2610.2
2708.2
2851.1
3015.8
3203.4
3417.7
3681.6
3968.5
4124.7
4043.6
3825.7
3604.1
3410.4
3225.2
3025.4
2812.4
2623.5
2579.9
2463.7
2260.3
1933.4
1665.9
1575.1
1501.2
1462.5
1377.7
1279.7
1161.0
1040.0
921.3
799.0
632.0
470.9
337.8
174.3
69.0
0.0

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